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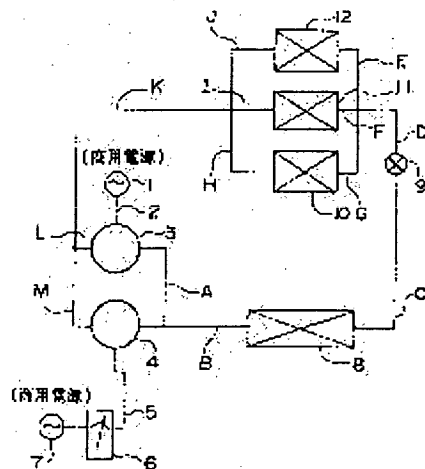
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(54) COMPRESSOR UNIT WITH EXTENSIVE CAPACITY CONTROL RANGE AND AIR-CONDITIONING SYSTEM THEREWITH

(57)Abstract:

PURPOSE: To make delicate air-conditioning control possible by combining together a low capacity compressor of variable rotational speed and a high capacity compressor of constant rotational speed in parallel, and performing capacity control operation at a low capacity area by the low capacity compressor and that at a high capacity area by the high capacity compressor, respectively.

CONSTITUTION: When it is applied to a multi-air conditioner, having plural units of indoor machines 10-12 to one outdoor machine 8 as a building air-conditioning system, a high capacity compressor 3 such as a screw compressor or the like, of constant revolution, with a mechanical capacity control mechanism, and a low capacity compressor 4 such as a variable-speed, scroll compressor or the like being driven by a variable frequency inverter 6 both are combined together in a parallel manner, thereby constituting a compressor unit. Then, capacity control operation at a low capacity area is performed by the low capacity compressor 4 and this capacity control operation at a high capacity area by the high capacity compressor 3, respectively. With this constitution, a capacity control range is enlarged, making delicate air-conditioning control possible in this way.



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